

1635 #12

RAW SEQUENCE LISTING DATE: 05/04/2000 PATENT APPLICATION: US/08/765,244 TIME: 12:18:32

Input Set : A:\8484-018.txt

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4 <110> APPLICANT: Seibel, Peter
         Seibel, Andrea
 7 <120> TITLE OF INVENTION: CHIMERICAL PEPTIDE-NUCLEIC ACID
         FRAGMENT, PROCESS FOR PRODUCING THE SAME AND ITS USES FOR
         APPROPRIATELY INTRODUCING NUCLEIC ACIDS INTO CELL ORGANELLES
10
         AND CELLS
12 <130> FILE REFERENCE: 8484-0018-999
14 <140> CURRENT APPLICATION NUMBER: US 08/765,244
15 <141> CURRENT FILING DATE: 1997-10-30
17 <150> PRIOR APPLICATION NUMBER: PCT/DE95/00775
                                                                           ENTERED
18 <151> PRIOR FILING DATE: 1995-06-11
20 <150> PRIOR APPLICATION NUMBER: DE P 44 21 079.5
21 <151> PRIOR FILING DATE: 1994-06-16
23 <160> NUMBER OF SEQ ID NOS: 22
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0
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28 <211> LENGTH: 41
29 <212> TYPE: PRT
30 <213> ORGANISM: Rattus rattus
32 <220> FEATURE:
34 <400> SEQUENCE: 1
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                                      10
                                                           15
37 Ala His Thr Ser Met Val Arg Asn Phe Arg Tyr Gly Lys Pro Val Gln
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                                  2.5
39 Ser Gln Leu Lys Pro Arg Asp Leu Cys
40 35 40
43 <210> SEQ ID NO: 2
44 <211> LENGTH: 39
45 <212> TYPE: DNA
46 <213> ORGANISM: Artificial Sequence
48 <220> FEATURE:
49 <223> OTHER INFORMATION: Synthetic sequence
51 <400> SEQUENCE: 2
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52 ccccgggtac cctgcgagcc ctgggctcgc aaggtaccc
54 <210> SEQ ID NO: 3
55 <211> LENGTH: 34
56 <212> TYPE: DNA
                                                                                MAY 30 2000 ·
57 <213> ORGANISM: Homo sapiens
59 <400> SEQUENCE: 3
60 ggggccctct ctattgatga gattagtagt atgg
                                                                           TECH CENTER 1600/2900
62 <210> SEQ ID NO: 4
63 <211> LENGTH: 34
64 <212> TYPE: DNA
65 <213> ORGANISM: Homo sapiens
67 <400> SEQUENCE: 4
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68 ccatactact aatctcatca atagagaggg cccc
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70 <210> SEQ ID NO: 5
71 <211> LENGTH: 30
72 <212> TYPE: DNA
73 <213> ORGANISM: Homo sapiens
75 <400> SEQUENCE: 5
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78 <210> SEQ ID NO: 6
79 <211> LENGTH: 103
80 <212> TYPE: DNA
81 <213> ORGANISM: Artificial Sequence
83 <220> FEATURE:
84 <223> OTHER INFORMATION: Chimeric sequence
86 <400> SEQUENCE: 6
87 ccatactact aatetcatca atagagaggg ccccgggtac cttgcgagec ctgggctcgc 60
88 aaggtacccg gggccctctc tattgatgag attagtagta tgg
90 <210> SEQ ID NO: 7
91 <211> LENGTH: 1465
92 <212> TYPE: DNA
93 <213> ORGANISM: Homo sapiens
95 <400> SEQUENCE: 7
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97 gittattget aaaggitaat cactgetgit teeegigggg gigtggetag getaagegit 120
98 tigagetgea tigetgegig eitgatgett giteetitig alegiggiga titagagggi 180
99 gaactcactg gaacggggat gettgeatgt gtaatettae taagagetaa tagaaagget 240
100 aggaccaaac etatttgttt atggggtgat gtgageeegt etaaacattt teagtgtatt 300
101 getttgagga ggtaagetae ataaactgtg gggggtgtet ttggggtttg gttggttegg 360
102 ggtatgggt tagcageggt gtgtgtgte tgggtaggat gggeggggt tgtattgatg 420
103 agattagtag tatgggagtg ggaggggaaa ataatgtgtt agttgggggg tgactgttaa 480
104 aagtgcatac cgccaaaaga taaaatttga aatctggtta ggctggtgtt agggcccttt 540
105 gtcccacacc cacccaagaa cagggtttgt taagatggca gagcccggta atcgcataaa 600
106 acttaaaact ttacagtcag aggttcaatt cetettetta acaacatace catggecaac 660
107 ctcctactcc tcattgtacc cattctaatc gcaatggcat tcctaatgct taccgaacga 720
108 aaaattctag gctatataca actacgcaaa ggccccaacg tggtaggccc ctacgggcta 780
109 ctacaaccct tegetgacge cataaaacte ttcaccaaag agcccctaaa acccgccaca 840
110 tetaccatea cectetacat cacegeeeeg acettagete teaccatege tettetacta 900
111 tgaacccccc tececatacc caaccccctg gtcaacctca acctaggect cetatttatt 960
112 ctagccacct ctagcctagc cgtttactca atcctctgat cagggtgagc atcaaactca 1020
113 aactacgccc tgatcggcgc actgcgagca gtagcccaaa caatctcata tgaagtcacc 1080
114 ctagccatea ttetactate aacattacta ataagtgget cetttaacet etecaceett 1140
115 atcacaacac aagaacacct ctgattactc ctgccatcat gaccettggc cataatatga 1200
116 tttateteca caetageaga gaeeaaeega acceetteg acettgeega aggggagtee 1260
117 gaactagtet caggetteaa categaatae geegeaggee eettegeeet attetteata 1320
118 gccgaataca caaacattat tataataaac accctcacca ctacaatctt cctaggaaca 1380
119 acatatgacg cactetecce tgaactetae acaacatatt ttgteaceaa gaccetaett 1440
120 ctaacctccc tottcttato aattc
                                                                                 1465
122 <210> SEO ID NO: 8
123 <211> LENGTH: 1465
124 <212> TYPE: DNA
125 <213> ORGANISM: Homo sapiens
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Output Set: C:\CRF3\REFHOLD\05042000\H765244.raw

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130 ttataataat gtttgtgtat teggetatga agaataggge gaaggggeet geggegtatt 180
131 egatgttgaa geetgagaet agtteggaet eeeettegge aaggtegaag ggggtteggt 240
132 tgqtctctgc tagtgtggag ataaatcata ttatggccaa gggtcatgat ggcaggagta 300
133 atcagaggtg ttcttgtgtt gtgataaggg tggagaggtt aaaggagcca cttattagta 360
134 atgttgatag tagaatgatg getagggtga etteatatga gattgtttgg getaetgete 420
135 gcagtgcgcc gatcagggcg tagtttgagt ttgatgctca ccctgatcag aggattgagt 480
136 aaacggctag gctagaggtg gctagaataa ataggaggcc taggttgagg ttgaccaggg 540
137 ggttgggtat ggggagggg gttcatagta gaagagcgat ggtgagagct aaggtcgggg 600
138 cggtgatgta gagggtgatg gtagatgtgg cgggttttag gggctctttg gtgaagagtt 660
139 ttatggcgtc agcgaagggt tgtagtagcc cgtaggggcc taccacgttg gggcctttgc 720
140 gtagttgtat atagcctaga atttttegtt eggtaageat taggaatgee attgcgatta 780
141 gaatgggtac aatgaggagt aggaggttgg ccatgggtat gttgttaaga agaggaattg 840
142 aacctetgae tgtaaagttt taagttttat gegattaceg ggetetgeea tettaacaaa 900
143 coctgttett gggtgggtgt gggacaaagg gccctaacac cagcctaacc agattteaaa 960
144 ttttatettt tggeggtatg caettttaac agteaceece caactaacae attatttee 1020
145 cctcccactc ccatactact aatctcatca atacaacccc cqcccatcct acccagcaca 1080
146 cacacacege tgctaaccec ataccegaa ccaaccaaac cccaaagaca cccccacag 1140
147 tttatgtage ttaceteete aaageaatae actgaaaatg tttagaeggg etcacateae 1200
148 cccataaaca aataggtttg gtcctagcct ttctattagc tcttagtaag attacacatg 1260
149 caagcatccc cgttccagtg agttcaccct ctaaatcacc acgatcaaaa ggaacaagca 1320
150 tcaagcacgc agcaatgcag ctcaaaacgc ttagcctagc cacaccccca cgggaaacag 1380
151 cagtgattaa cctttagcaa taaacgaaag tttaactaag ctatactaac cccagggttg 1440
152 gtcaatttcg tgccagccac cgcgg
154 <210> SEQ ID NO: 9
155 <211> LENGTH: 86
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Synthetic sequence
162 <400> SEQUENCE: 9
163 gatategega agettaagge geeteaggte accatatgat cattigttaa gatggeagag 60
164 cccggtaatc gcataaaatg agaccg
166 <210> SEQ ID NO: 10
167 <211> LENGTH: 94
168 <212> TYPE: DNA
169 <213> ORGANISM: Artificial Sequence
171 <220> FEATURE:
172 <223> OTHER INFORMATION: Synthetic sequence
174 <400> SEQUENCE: 10
175 gatecggtet cattttatgc gattaceggg etetgecate ttaacaaatg atcatatggt 60
176 gacetgagge geettaaget tegegatate tgca
178 <210> SEQ ID NO: 11
179 <211> LENGTH: 1455
180 <212> TYPE: DNA
181 <213> ORGANISM: Unknown
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183 <220> FEATURE:



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184 <223> OTHER INFORMATION: Plasmid
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188 tgtgagcccg tctaaacatt ttcagtgtat tgctttgagg aggtaagcta cataaactgt 120
189 ggggggtgtc tttggggttt ggttggttcg gggtatgggg ttagcagcgg tgtgtgtgt 180
190 ctgggtagga tgggcggggg ttgtattgat gagattagta gtatgggagt gggaggggaa 240
191 aataatgtgt tagttggggg gtgactgtta aaagtgcata ccgccaaaag ataaaatttg 300
192 aaatctggtt aggctggtgt tagggttctt tgtttttggg gtttggcaga gatgtgttta 360
195 aattaacaca ctttagtaag tatgttcgcc tgtaatattg aacgtaggtg cgataaataa 540
196 taggatgagg caggaatcaa agacagatac tgcgacatag ggtgctccgg ctccagcgtc 600
197 togcaatgot atogogtgoa tacoccocag acgaaaatac caaatgoatg gagagotoco 660
198 gtgagtggt aatagggtga tagacotgtg atocatogtg atgtottatt taaggggaac 720
199 gtgtgggota tttaggottt atgacoctga agtaggaaco agatgtogga tacagttoac 780
200 tttagctacc cccaagtytt atgggcccgg agcgaggaga gtagcactct tgtgcgggat 840
201 attgattca cggaggatgg tggtcaaggg accectatct gaggggggtc atccatgggg 900
202 acgagaaggg atttgactgt aatgtgctat gtacggtaaa tggctttatg tactatgtac 960
203 tgttaagggt gggtaggttt gttggtatcc tagtgggtga ggggtggctt tggagttgca 1020
204 gttgatgtgt gatagttgag ggttgattgc tgtacttgct tgtaagcatg gggagggggt 1080
205 tttgatgtgg attgggtttt tatgtactac aggtggtcaa gtatttatgg taccgtacaa 1140
206 tattcatggt ggctggcagt aatgtacgaa atacatagcg gttgttgatg ggtgagtcaa 1200
207 tacttgggtg gtacccaaat ctgcttcccc atgaaagaac agagaatagt ttaaattaga 1260
200 aaaggtttte atcteegett tacaagaetg gtgtattage tgcagatate gegaagetta 1380
210 aggcgcctca ggtcaccata tgatcatttg ttaagatggc agagcccggt aatcgcataa 1440
211 aatgagaccg gatcc
213 <210> SEQ ID NO: 12
214 <211> LENGTH: 1455
215 <212> TYPE: DNA
216 <213> ORGANISM: Unknown
218 <220> FEATURE:
219 <223> OTHER INFORMATION: Plasmid
221 <400> SEQUENCE: 12
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224 gagatgaaaa ccttttcca aggacaaatc agagaaaaag tctttaactc caccattagc 180
225 acccaaagct aagattctaa tttaaactat tctctgttct ttcatgggga agcagatttg 240
226 ggtaccacce aagtattgac tcacccatca acaaccgcta tgtatttcgt acattactgc 300
227 cagccaccat gaatattgta cggtaccata aatacttgac cacctgtagt acataaaaac 360
228 ccaatccaca tcaaaacccc ctccccatgc ttacaagcaa gtacagcaat caaccctcaa 420
229 ctatcacaca tcaactgcaa ctccaaagcc accectcace cactaggata ccaacaaacc 480
230 tacccaccet taacagtaca tagtacataa agecatttac egtacatage acattacagt 540
231 caaatccctt ctcgtcccca tggatgaccc ccctcagata ggggtccctt gaccaccatc 600 232 ctccgtgaaa tcaatatccc gcacaagagt gctactctcc tcgctccggg cccataacac 660
233 ttgggggtag ctaaagtgaa ctgtatccga catctggttc ctacttcagg gtcataaagc 720
234 ctaaatagcc cacacgttcc ccttaaataa gacatcacga tggatcacag gtctatcacc 780
235 ctattaacca ctcacgggag ctctccatgc atttggtatt ttcgtctggg gggtatgcac 840
236 gcgatagcat tgcgagacgc tggagccgga gcaccctatg tcgcagtatc tgtctttgat 900
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Input Set : A:\8484-018.txt

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237 tectgeetea tectattatt tategeacet aegtteaata ttaeaggega acataettae 960
238 taaagtgtgt taattaatta atgcttgtag gacataataa taacaattga atgtctgcac 1020
239 agecacttte cacacagaca teataacaaa aaattteeac caaaccecce etcecceget 1080
240 tetggecaca geacttaaac acatetetge caaaceeeaa aaacaaagaa eectaacace 1140
241 agoctaacca gattteaaat tttatetttt ggeggtatge aettttaaca gteacecece 1200
242 aactaacaca ttatttteec eteccaetee catactaeta ateteateaa tacaaceeec 1260
243 geceatecta eccageacae acacaeeget getaaceeca tacceegaac caaccaaace 1320
244 ccaaagacac ccccacagt ttatgtagct tacctcctca aagcaataca ctgaaaatgt 1380
245 ttagacgggc tcacatcacc ccataaacaa ataggtttgg tcctagcctt tctattagcc 1440
246 cctgagaccc tcgag
248 <210> SEQ ID NO: 13
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250 <212> TYPE: DNA
251 <213> ORGANISM: Unknown
253 <220> FEATURE:
254 <223> OTHER INFORMATION: Plasmid
256 <400> SEQUENCE: 13
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258 tytygagcce tctaacactat tccagtytat tyctttgagg aggtaagcta cataaactyt 120
259 gyggggtytc tttggggttt gyttggttcg gygtatgggg ttagcagcgg tytgtgtytg 180
260 ctgggtagga tgggcggggg ttgtattgat gagattagta gtatgggagt gggaggggaa 240
261 aataatgtgt tagttggggg gtgactgtta aaagtgcata ccgccaaaag ataaaatttg 300
262 aaatctggtt aggctggtgt tagggttett tgtttttggg gtttggcaga gatgtgttta 360
263 agtgctgtgg ccagaagcgg gggagggggg gtttggtgga aattttttgt tatgatgtct 420
264 gtgtggaaag tggctgtgca gacattcaat tgttattatt atgtcctaca agcattaatt 480
265 aattaacaca ctttagtaag tatgttcgcc tgtaatattg aacgtaggtg cgataaataa 540
266 taggatgagg caggaatcaa agacagatac tgcgacatag ggtgctccgg ctccagcgtc 600
267 tegeaatget ategegtgea taccecceag acgaaaatac caaatgeatg gagageteec 660
268 gtgagtggtt aatagggtga tagacctgtg atccatcgtg atgtcttatt taaggggaac 720
269 gtgtgggeta tttaggettt atgaccetga agtaggaace agatgtegga tacagtteae 780
270 tttagctacc cccaagtgtt atgggcccgg agcgaggaga gtagcactct tgtgcgggat 840
271 attgatttca cggaggatgg tggtcaaggg accoctatct gaggggggtc atccatgggg 900
272 acgagaaggg atttgactgt aatgtgctat gtacggtaaa tggctttatg tactatgtac 960
273 tgttaagggt gggtaggttt gttggtatcc tagtgggtga ggggtggctt tggagttgca 1020
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275 tttgatgtgg attgggttt tatgtactac aggtggtcaa gtatttatgg taccgtacaa 1140
276 tattcatggt ggctggcagt aatgtacgaa atacatagcg gttgttgatg ggtgagtcaa 1200
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280 taacatggta agtgtactgg aaagtgcact tggacgaacc agagtgtagc ttaacacaaa 1440
281 gcacccaact tacacttagg agatttcaac ttaacttgac cgctctgagc taaacctagc 1500
282 occasaccea otocacetta otaccagaca acottageca aaccatttac ocasatasag 1560
283 tataqqcqat agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa 1620
284 aaattataac caagcataat atagcaagga ctaaccccta taccttctgc ataatgaatt 1680
285 aactagaaat aactttgcaa ggagagccaa agctaagacc cccgaaacca gacgagctac 1740
286 ctaagaacag ctaaaagagc acacccgtct atgtagcaaa atagtgggaa gatttatagg 1800
287 tagaggegae aaacctaceg ageetggtga tagetggttg tecaagatag aatettagtt 1860
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VERIFICATION SUMMARY
PATENT APPLICATION: US/08/765,244

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